## **Amendments to the Claims**

Please amend claims 1-13 and add new claim 14 as shown in the following listing of claims. This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1 1. (currently amended) Demodulator arranged to demodulate a first signal
- with the aid of a second signal, the demodulator comprising:
- a first bandpass (30) filter arranged to recover the first signal (36)
- 4 from a received signal (10); and
- a second bandpass filter (32) arranged to recover the second signal
- 6 (36) from a received signal (10);
- in which the passband of the second bandpass filter (32) is
- substantially narrower than the passband of the first bandpass filter (30).
  - 2. (currently amended) Demodulator according to claim 1, wherein the
- demodulator comprises compensation means (40,50) for compensating phase error
- between the recovered first (36) and second (38) signals.
- 1 3. (currently amended) Demodulator according to claim 2, wherein the
- 2 compensation means comprises a delay element (4) that is arranged to delay the
- 3 recovered first signal (36).
- 1 4. (currently amended) Demodulator according to claim 2, wherein the
- 2 compensation means comprises a phase shifter (50) that is arranged to shift a
- 3 phase of the recovered first signal (36), the phase shift being dependent upon the
- 4 phase difference between the recovered second signal (38) and a reference signal
- 5 <del>(51)</del>.

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- 5. (currently amended) Demodulator according to claim 4, wherein the
- 2 compensation means comprises a selector (31) that is arranged to select the
- 3 reference signal (51) from at least two sources.

- 6. (currently amended) Demodulator according to claim 5, wherein the
- 2 selector (31) is a programmable selector.
- 7. (currently amended) Demodulator according to claim 5, wherein one of the
- at least two sources is a demodulated first signal (18).
- 1 8. (currently amended) Demodulator according to claim 5, wherein one of the
- at least two source is an image of a demodulated first signal (18) which is stored
- in memory means (35).
- 9. (currently amended) Demodulator according to claim 8 wherein, the
- 2 memory means (35) comprises an analogue to digital converter arranged to
- 3 provide a digital image of the demodulated first signal.
- 1 10. (currently amended) Demodulator according to claim 1 wherein the
- demodulator further comprises a phase locked loop (60) for stabilizing the
- 3 recovered second signal (38).
- 1 11. (currently amended) Demodulator according to claim 1 wherein the
- 2 recovered second signal (38) is used for frequency down converting at least a third
- 3 signal <del>(73)</del>.
- 1 12. (currently amended) Apparatus (88) comprising a demodulator (82), the
- demodulator being arranged to demodulate a first signal (36) with the aid of a
- second signal (38), the demodulator comprising:
- a first bandpass filter (30) arranged to recover the first signal (36)
- 5 from a received signal (10); and
- a second bandpass filter (32) arranged to recover the second signal
- 7 (38) from the received signal (10);
- 8 in which the passband of the second bandpass filter (32) is
- 9 substantially narrower than the passband of the first bandpass filter (30).

- 1 13. (currently amended) Method for demodulating a first signal with the aid of
- 2 a second signal the method comprising the steps of:
- using a first bandpass filter (30) for recovering the first signal (36)
- 4 from a received signal (10);
- 5 using a second bandpass filter (32) having a substantially narrower
- 6 passband than the first bandpass filter (30), for recovering the second signal (38)
- 7 from the received signal (10).
- 1 14. (new) Demodulator according to claim 1 further comprising a mixer
- 2 connected to the first and second bandpass filters to mix the first signal and the
- 3 second signal.